

DIALOG(R) File 351:Derwent WPI  
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Computer on-line system with CATV circuit for bidirectional data transmission - has display unit to display information extracted by extraction unit from second memory

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The system includes a first communication modem connected with a LAN circuit (2) and a second communication modem connected to a computer (13). The first and second communication modems are connected through a CATV circuit (7). A first converter (4) converts the data format of an input data signal, which is then modulated by a first QPSK modulator (5). A first QPSK demodulator (6) demodulates the data signal input from the first modulator through the CATV circuit. A conversion unit converts the data format of the data signal from the first demodulator and outputs it to the LAN circuit. An account center performs a real time billing according to the usage situation of the CATV circuit for every receiver device. A second converter converts the data format of the data signal input from the LAN circuit.

A measurement unit measures the rate of error of the data signal from the second converter and the amount of data traffic. The billing information for every receiver device is extracted from the data signal from an account center and is stored in an account memory. A second QPSK modulator (10) modulates the data signal from the conversion unit. The updated information stored in the account memory is read out. A second QPSK demodulator (9) demodulates the data signal input from the second modulator. The data format of the data signal from the second demodulator is converted and is output to the computer. An extraction unit extracts the information from the second memory and outputs the information to a display unit (24).

ADVANTAGE - Enables easy confirmation of billing information such as utilisation fee of circuit. Improves operativity of system.

Title Terms: COMPUTER; LINE; SYSTEM; CATV; CIRCUIT; BIDIRECTIONAL; DATA;

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TRANSMISSION; DISPLAY; UNIT; DISPLAY; INFORMATION; EXTRACT; EXTRACT; UNIT  
; SECOND; MEMORY

Derwent Class: W01; W02

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International Patent Class (Additional): H04J-004/00; H04L-012/28;  
H04L-012/46

File Segment: EPI

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# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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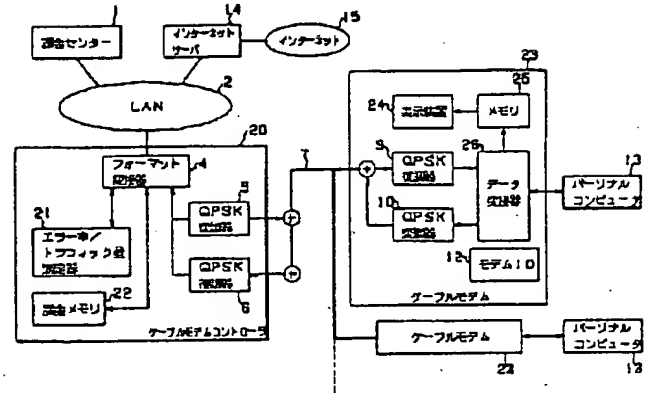
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TITLE : COMPUTER ON-LINE SYSTEM USING  
CATV LINE



ABSTRACT : PROBLEM TO BE SOLVED: To conduct smoothly toll charged data communication service using a CATV channel.

SOLUTION: A transmission packet from a personal computer 13 is converted into a transmission packet for a CATV channel by a data converter and sent to a cable modem controller via a QPSK modulator 10 and the CATV channel, and reaches an Internet server 14 via a QPSK demodulator 6, a format converter 4 and a LAN channel 2. Reply data from the Internet server 14 are outputted to a cable modem controller 20 via the LAN channel 2 and added with channel information from an error rate/traffic measurement device 21, and a charging memory 22 and the resulting data are converted into a transmission packet for the CATV channel via the format converter 4 and sent to a cable modem 23 via a QPSK modulator 5 and the CATV channel and pass through a QPSK demodulator 9 and a data converter 11 and the channel information is extracted from the packet and stored in a memory device 25 and displayed on a display device 24.

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